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Subject: trouble with map projections

Posted by [chris.orphanides](#) on Thu, 20 Jun 2013 18:37:06 GMT

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Hello,

I am trying to take a satellite image of sea surface temperature (SST), subset it, and then project it, and I can't seem to get it right. I am able to read the image and subset the area I am interested in without a problem. Getting it projected and having things line up is another story.

What makes sense to me is first using the `map_proj_init` function to create the map projection I want to put the image into (Lambert Conformal Conic), then use the `map_proj_image` function to warp the image to the proper projection. However, when I do this, the resulting array has lost its SST values and is all 0.0s. Can anyone tell me what I am doing wrong? I have experimented with many of the mapping capabilities in IDL, but I just can't get it right. The code I described is below. Thanks in advance for your help.

```
range = [-78.1900, 34.0300, -61.8100, 45.4900]
```

```
nec_prj = MAP_PROJ_INIT('Lambert Conformal Conic', /GCTP, $  
    ELLIPSOID='WGS 84', $  
    LIMIT=range, $  
    CENTER_LATITUDE=40.00, $  
    CENTER_LONGITUDE=-70.00, $  
    STANDARD_PAR1 = 36.1667, $  
    STANDARD_PAR2 = 43.8333 )
```

```
necprj_sst = MAP_PROJ_IMAGE(nec_region, range, MAP_STRUCTURE = nec_prj)  
; nec_region is the SST data for the region I am interested in,  
; subset to fit the range in the lines above
```

A little additional information: The main input image before I subset it is described as being in a Cylindrical Lat-Lon projection with a regular 0.01 degree grid and a WGS 84 Ellipsoid. Since Cylindrical is the default IDL projection I didn't set a map projection for this image. I would prefer to set the ellipsoid to WGS 84 for the Cylindrical projection, though it doesn't appear possible in IDL (I would love it if I was wrong about this). Also, I am working with the type of images described here: ( [http://podaac.jpl.nasa.gov/dataset/JPL\\_OUROCEAN-L4UHfnd-GLOB-G1SST](http://podaac.jpl.nasa.gov/dataset/JPL_OUROCEAN-L4UHfnd-GLOB-G1SST))

Thanks.

Chris

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